VIPER 4 FLAVOR

ILLUSTRATED PARTS LIST

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The products, technical information, and instructions contained in this manual are subject to change without notice. These instructions are not intended to cover all details or variations of the equipment, nor to provide for every possible contingency in the installation, operation or maintenance of this equipment. This manual assumes that the person(s) working on the equipment have been trained and are skilled in working with electrical, plumbing, pneumatic, and mechanical equipment. It is assumed that appropriate safety precautions are taken and that all local safety and construction requirements are being met, in addition to the information contained in this manual.

This Product is warranted only as provided in Cornelius' Commercial Warrant applicable to this Product and is subject to all of the restrictions and limitations contained in the Commercial Warranty.

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Contact Information:

To inquire about current revisions of this and other documentation or for assistance with any Cornelius product contact:

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This document contains the original instructions for the unit described.

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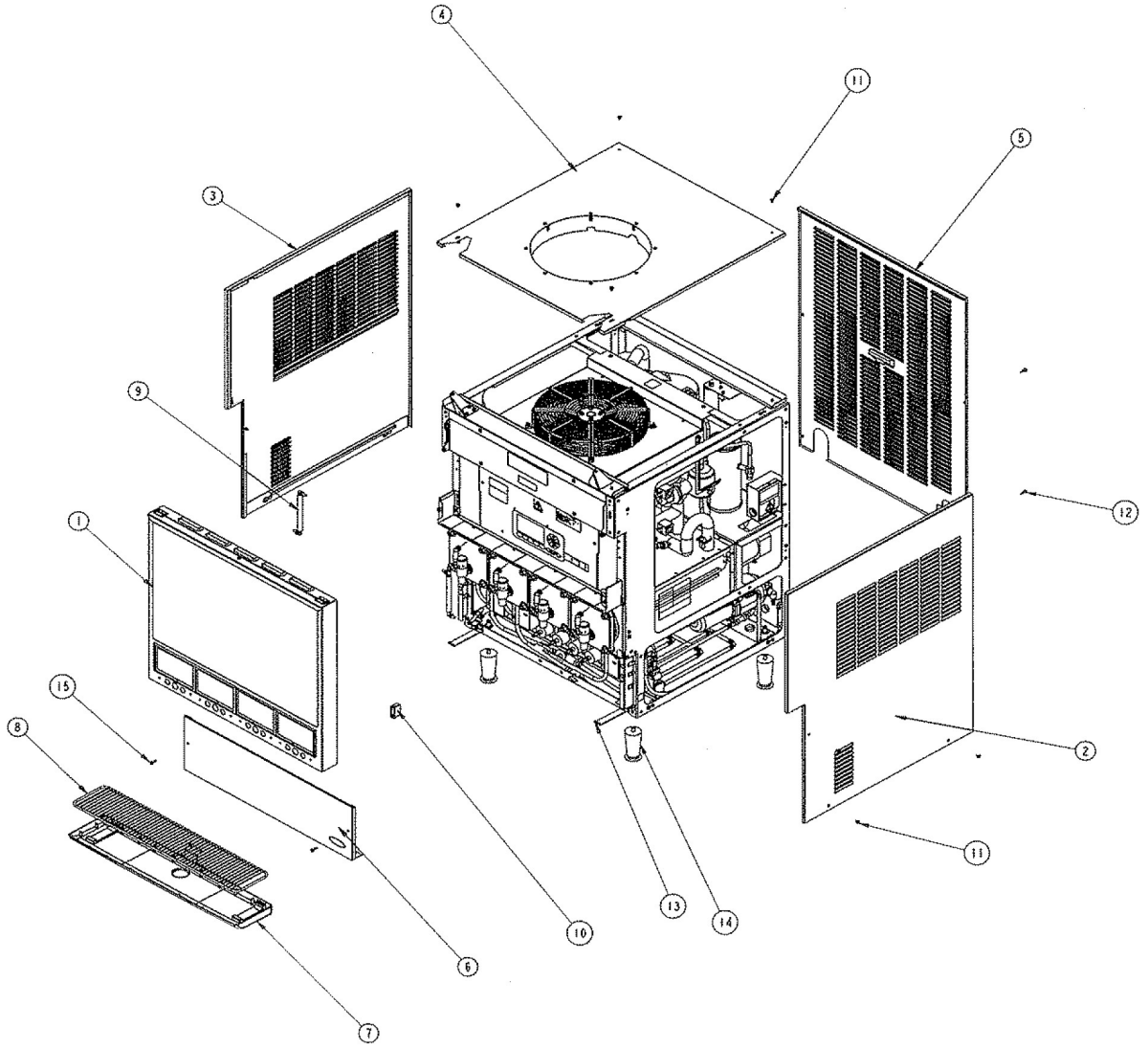

Figure 1. Cladding Assembly

Table 1. Cladding Assembly

Item	Part No.	Description
1	620045246	Merchandiser Assy (See Fig. 8)
	620047362	Merchandiser Assy - Short (Not Shown)
2	620054965	Side Panel Right
3	620054964	Side Panel Left
4	620048672	Top Panel 4FL -SS
	620049770	Top Panel 4FL - SS (For Short Merchandiser, Not Shown)
5	620045257	Rear Panel 4FL - SS
6	629096980	Kit-Splash Panel 4FL
	629096981	Kit-Splash Panel 4FL ICEE
	629096978	Kit-Splash Panel 4FL - Extended (Not Shown

Table 1. Cladding Assembly

Item	Part No.	Description
7	620045269	Drip Tray -4FL
8	620045270	Cup Rest -4FL
9	620042793	Strut Gas Lift 3/4FL Viper
10	560001783	Latch Door 2 Piece PLSTC
11	620045298	Screw 10-32 X 3/8” Type F TRPH STZ1
12	620045297	Screw 10-32 X 3/4" Type F TRPH STZ1
13	620054014	Brkt, Mounting Tray Drip Viper
14	70970	Leg 4.00” Adj. 3/8-16 Stud
15	620720840	Screw Mach. 10-32 X 3/4” SS

NOTE: When switching merchandiser types (Item #1), correct top panel must also be used. Order Item #4, if necessary.

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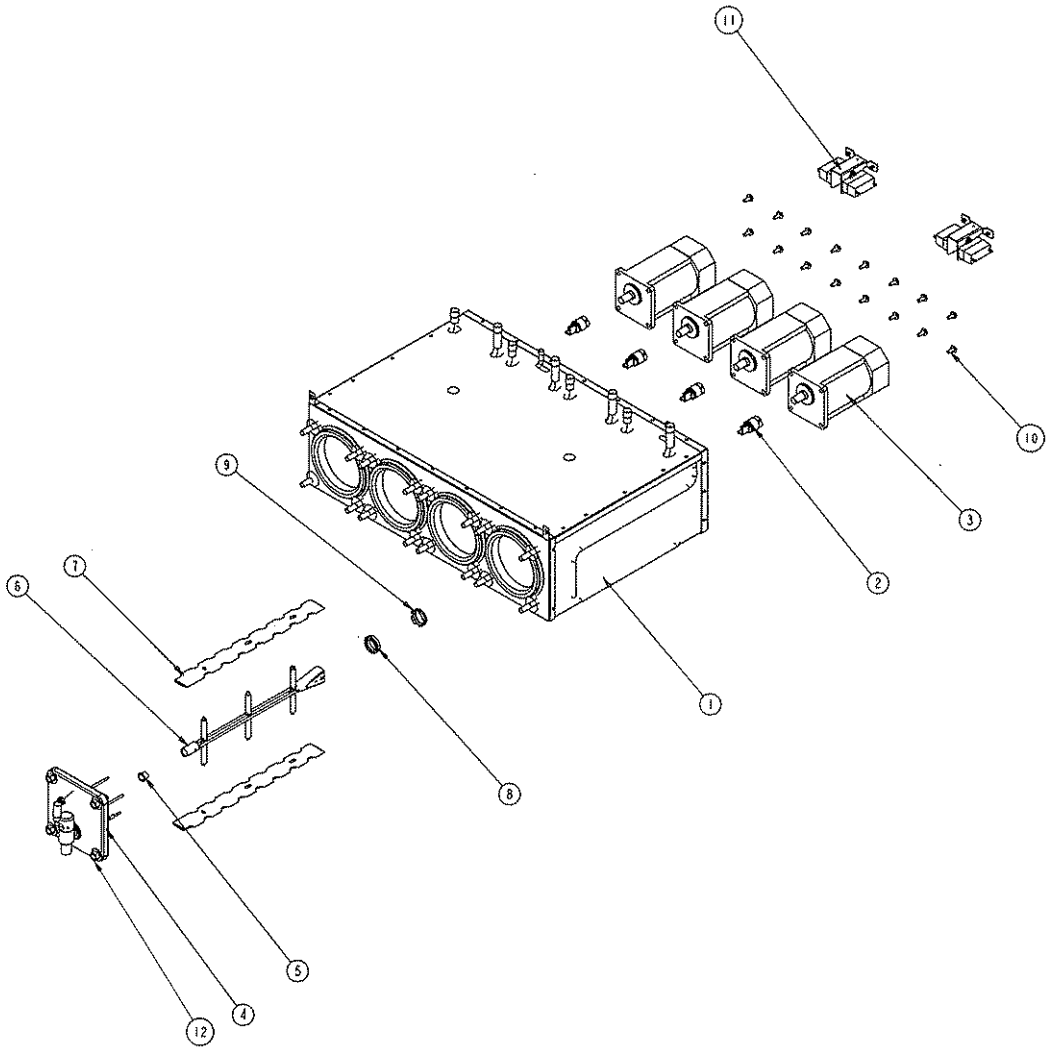

Figure 2. Foam Pack/Drive Assembly

Table 2. Foam Pack/Drive Assembly

Item	Part No.	Description
1	629096941	Kit-Serv Foam Pack Viper 4 Barrel
2	629096854	Kit-Adapter Drive Shaft w/Set Screw & Dowel
3	629097101	Kit 60 Hz Gear Motor W/drive Shaft
4	560004631	Door Frz Cyl Assy. Kit SPH (See Fig. 4)
	620045519	Door Frz Cyl Assy. Kit Motorman (See Fig. 4)
5	2392	Bushing Split Flange .5011D NYL

Table 2. Foam Pack/Drive Assembly

Item	Part No.	Description
6	620715735	Body Beater Viper
7	620049806	Blade Scraper Freeze Cyl Viper
8	620045383	Seal Viper Barrel Pack of 10
9	620043162	Spacer Plastic for Utex Seal Viper
10	560003345	Bolt Mach 1/4-20 X 5/8'' Slotted Hex STZ1
11	620314318	Capacitor Run 4.0 uF 450VAC Plastic - 60 Hz
12	320553001	Nut Hex 7/16-14 Brch

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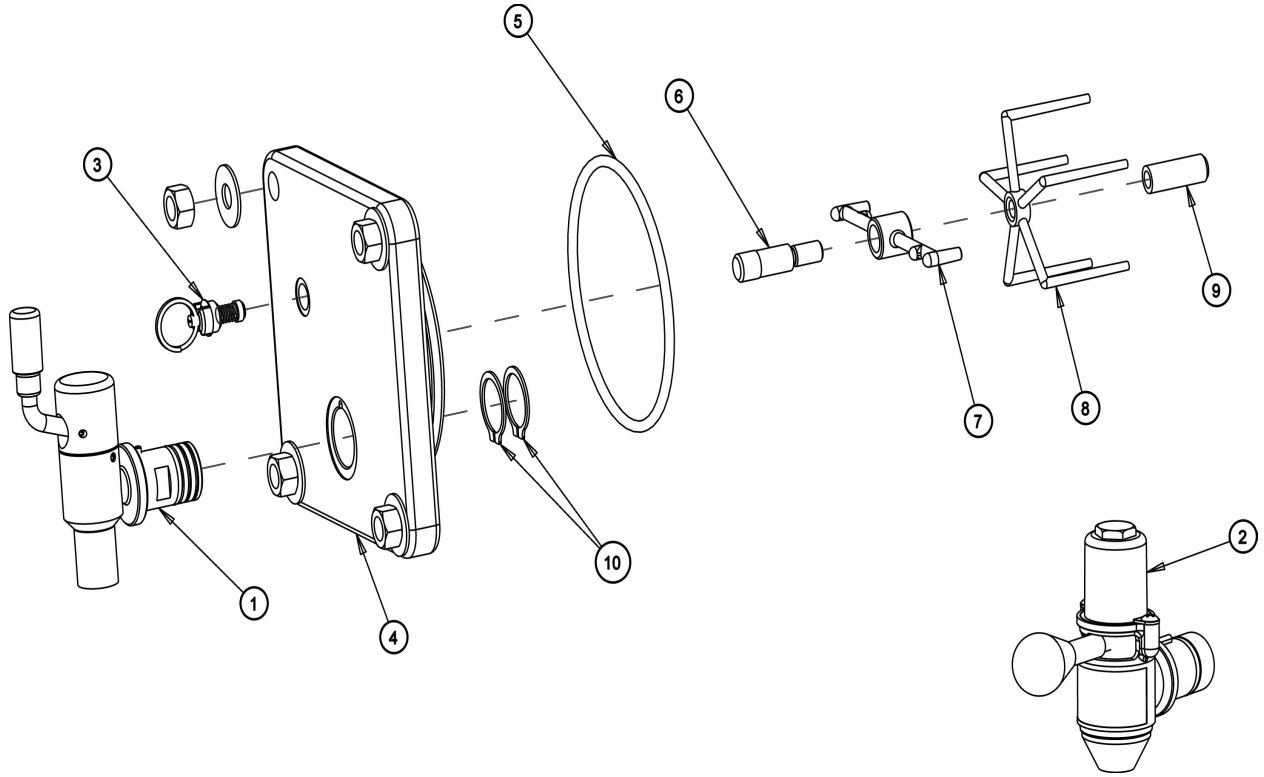

Figure 3. Faceplate Assembly

Table 3. Faceplate Assembly

Item	Part No.	Description
1	620047456	Valve Assy SPH Retaining Ring
2	620045520	Valve Disp Assy Motorman (See Fig. 5)
3	325954000	Stem Assy R-Val FCB
4	325918000	Door Frz Cyl 2FCB Va
5	320678000	O-Ring 4.60ID 210CS 70DU EY-P
6	2361	Shaft Pivot Faceplate FCB V3+

Table 3. Faceplate Assembly

Item	Part No.	Description
7	321269001	Spinner Frz Cyl
8	322441000	Sensor Visc Mld
9	2358	Pin Beater Bar FCB V3+
10	620047188	Retaining Ring
11	321653000	O-Ring 862ID 103CS 70DU EY-P
12	620047347	Kit SPH-Valve Repair
13	629096997	Kit SPH-Valve Replacement

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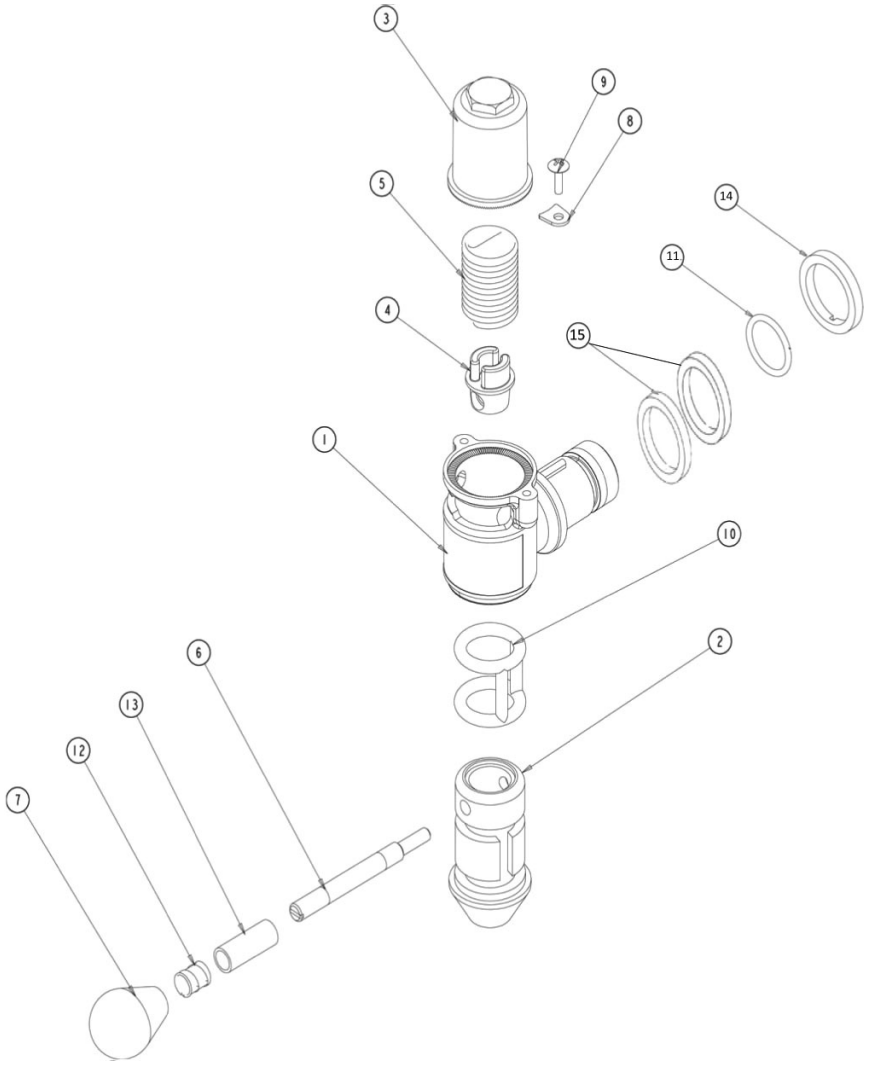

Figure 4. Motorman Valve Assembly

Table 4. Motorman Valve Assembly

Item	Part No.	Description
1	620046168	Body Valve FCB w/Stop
2	1554	Body Valve Ribbed
3	1576	Housing Spring FCB Valve
4	1575	Retainer Spring Valve
5	325305000	Spring Torsion HC FCB
6	321651000	Lever Valve
7	1555	Knob White

Table 4. Motorman Valve Assembly

Item	Part No.	Description
8	325647000	Plate Val FCB
9	317784000	Screw, TC 08-18 TRPH 16 SSPA 25
10	2818	O-Ring Caged FCB Val
11	321653000	O-Ring 862ID 103CS 70DU EY-P
12	1544	Spring Compression .500LG .42OD SS
13	1543	Tube Release .438OD.049 Wall
14	321652000	Nut-Shank 1-1/16-16Thd
15	325936000	Spacer Val 2F FCB VA

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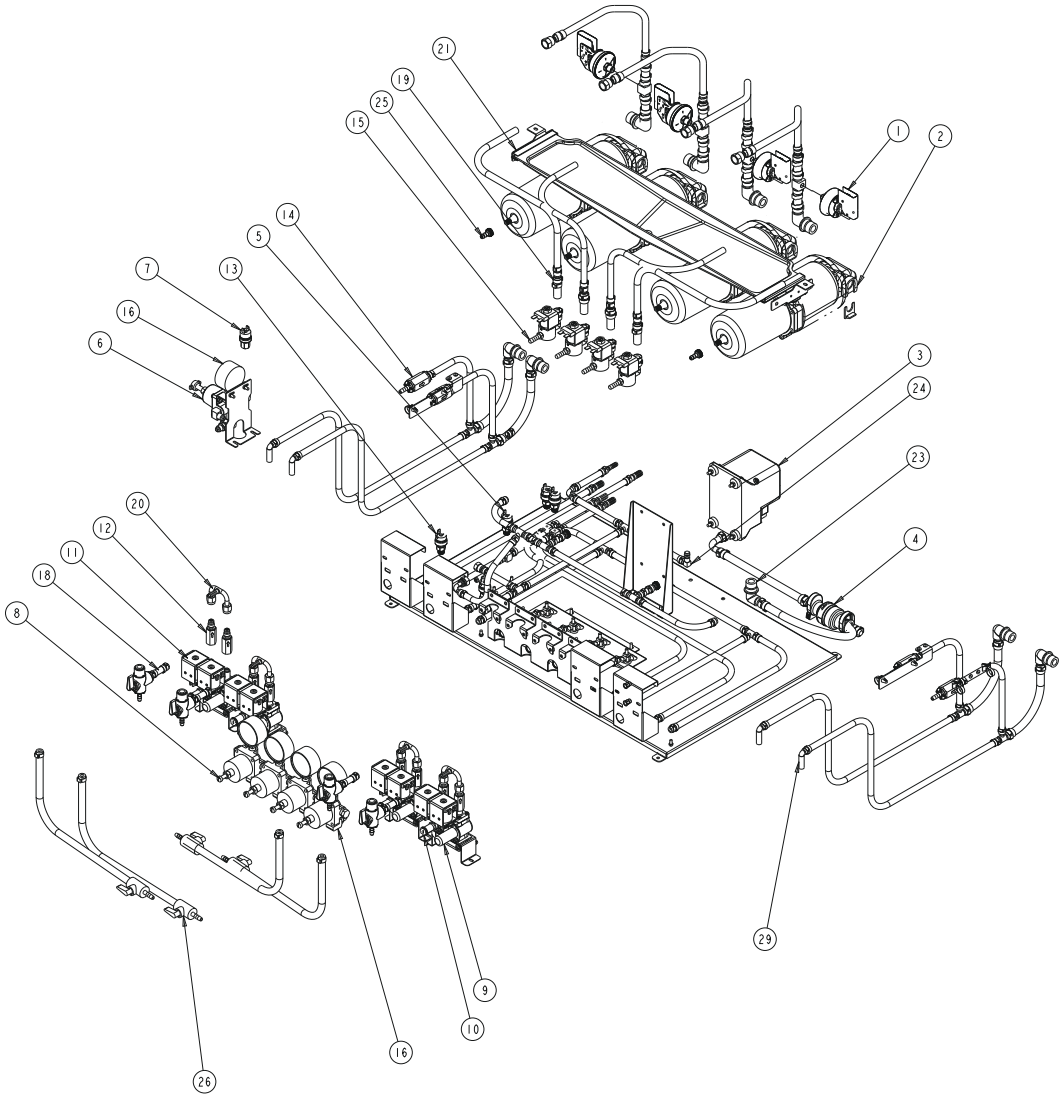

Figure 5. Product Delivery System

Table 5. Product Delivery System

Item	Part No.	Description
1	620056072	Switch, Barrel Fill - 4 FL Viper
2	620518367	Tank Expansion 33 Oz FloJet
3	629096937	Kit-Pump Water FloJet
4	620054693	Reg Water 30 PSIG W 3/8 Fittings
5	620043083	Switch Sold Out Water - Viper
6	183446016	Reg S SQ 60 RV CRTN
7	620313290	Switch Sold Out CO2 - 4 FL Viper
8	183460016	Reg S SQ 30 ORA CTN
9	620608747	Valve Solnd Assy Wtr 0.82GPM
10	620608746	Valve Solnd Assy Syr 0.21GPM
11	620313722	Solenoid Pull 24VAC 50/60 C.D.
12	560002991	Valve Chk 7/16F X 7/16M CHUD
13	620313291	Switch Sold Out Syrup - 3 FL Viper
14	620609162	Valve Chk 1/4 BARB (2) SMC
15	620609161	Valve Sol CO2 Mtr KIP
16	183287000	Gage 60PSI 400KPA

Table 5. Product Delivery System

Item	Part No.	Description
17	183099000	Kit Repair Reg. Secondary (Not Shown)
18	620609164	Valve Shut Off 3-Way
19	620716343	Orifice .030ID SS
20	620720662	Fitg U-Brb 1/4 X 1/4 FL (2)
21	620522949	Condensation Tray
22	620720658	Fitg L-Brb 10/13MM X Port FloJet
23	620720673	Fitg Barb 3/8 X Port SS FloJet
24	620720672	Fitg CO2 L-Brb 1/4 X Port BR FloJet
25	620720659	Fitg Barb 1/4 Schrader
26	325012000	Valve Shut-Off 1/4Barb Plastic
27	174478100	1/4" Beverage Tubing X 100' Roll
28	174292100	3/8" Beverage Tubing X 100' Roll
29	620720663	Fiting-Push L 3/8 Stem X 1/4 Barb
30	620045375	Insulation w/Adhesive Exp Tank

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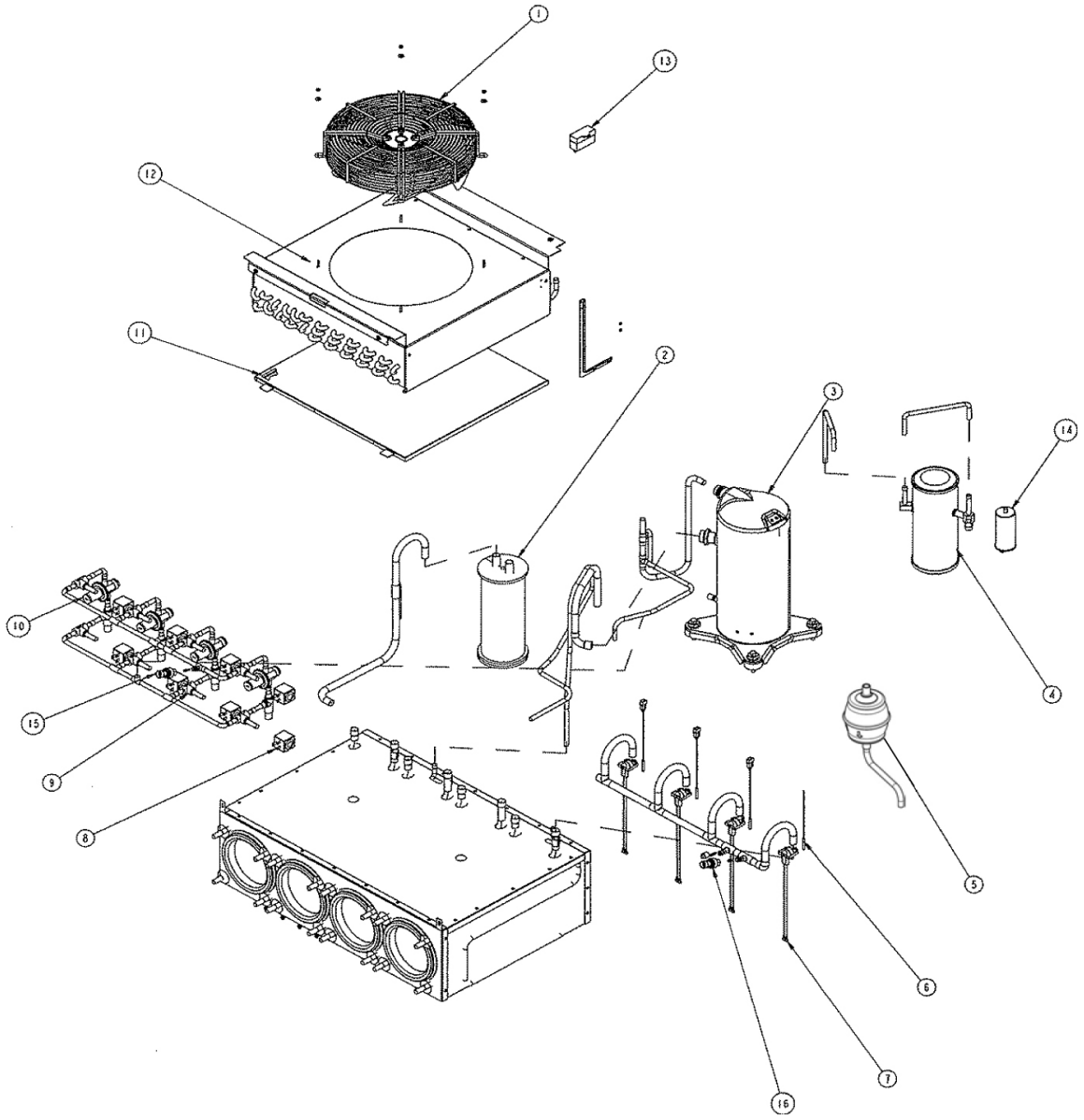

Figure 6. Refrigeration System

Table 6. Refrigeration System

Item	Part No.	Description
1	629096902	Kit Condenser Fan Viper 50/60Hz
2	620045372	Accum Suction Foamed Viper
3	629096901	Kit-Comp Scroll Copeland 404A 60 Hz - ZB19
4	620045290	Receiver, 90Cu In.
5	60686	Dryer 27 IN3 Sngl 381ID R404
6	629096938	Kit-Sensor Thermistor 5K Ohm Viper
7	629096942	Kit-Sw. Therm. C/O Leaded Set 120F
8	620313726	Solenoid Coil EVU 24VAC 50/60HZ
9	620609157	Valve, Solenoid EVU-3
10	620609156	Valve, Expansion Automatic A7-B

Table 6. Refrigeration System

Item	Part No.	Description
11	620608618	Filter, Air 18.00" X 19.00" 4 FL Viper
12	620608016	Cond-Coil Assy - 4 FL Viper
13	620314318	Capacitor, Run 4.0uF 450VAC Plastic
14	620314319	Cap., Run 45uF 370VAC Stud-Mnt - 60 Hz
15	620314540	Sensor Transducer 500 PSI Refrig
16	620314539	Sensor Transducer 300 PSI Refrig

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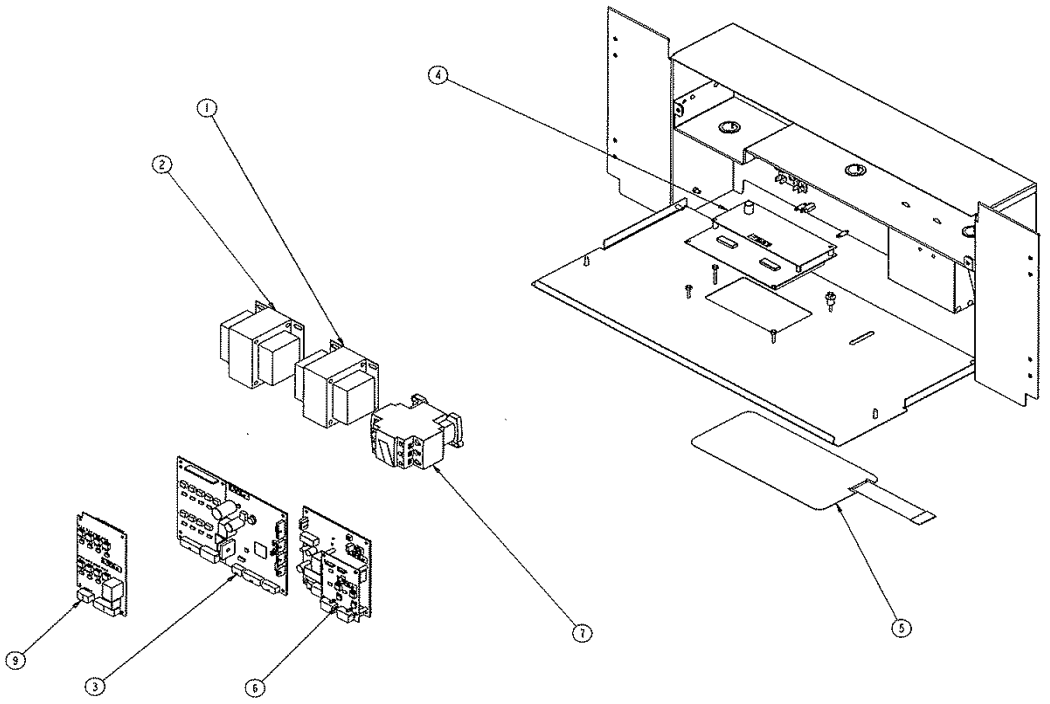

Figure 7. E-Box Assembly

Table 7. E-Box Assembly

Item	Part No.	Description
1	620710739S	Transformer 60+75VA 240V:24V 50/60HZ
2	620710739S	Transformer 60+75VA 240V:24V 50/60HZ
3	620314869S	Kit-Board Viper Ctl_Main I/O Board Ver. 2
	620314869-100S	Kit-Board Viper Ctl_Main I/O Board Ver. 3
4	620314871S	Kit-Board Viper Ctl_U/I Board Ver. 2
	620314871-100S	Kit-Board Viper Ctl_U/I Board Ver. 3
5	629096275S	Kit-Key Pad Ctl Viper
6	620045351-100S	Kit-Board Viper Ctl_Motor Control Board
7	620314029	Relay Compress 24VAC Coil 600VAC Contacts
8	629096930TC	Kit, Langauage Chip - Chinese Traditional UI Software Ver. 2 (not shown)
	629096930SC	Kit, Language Chip - Chinese Simple UI Software Ver. 2 (Not Shown)
	629096931TC	Kit, Language Chip - Chinese Traditional UI Software Ver. 3 (Not Shown)
	629096931SC	Kit, Language Chip - Chinese Simple UI Software Ver. 3 (Not Shown)
	629096931KR	Kit, Language Chip - Korean UI Software Ver. 3 (Not Shown)
	629096931SP	Kit, Language Chip - Spanish UI Software Ver. 3 (Not Shown)
	629096931JP	Kit, Language Chip - Japanese UI Software Ver. 3 (Not Shown)
9	620314870S	Kit Brd Expander 3/4FL Viper CTL Main IO Brd

Table 8. Harness Assemblies (Not Shown)

Item	Part No.	Description
1	620043061	Harness Main E-Box to Merchandiser W/ 24VAC

Table 8. Harness Assemblies (Not Shown)

Item	Part No.	Description
2	620043067	Harness, Secondary, Exp Transformer
3	620046515	Harness, Thermister Inputs
4	620046516	Harness, Limit Switch Inputs
5	620046517	Harness, LV AC Outputs
6	620045291	Harness, Motor Ground
7	620323247	Harness, Main E-Box IO PCBA to 24VAC Strip
8	620323348	Harness, Main E-Box Mtr Cont PCBA to Motor 1
9	620323657	Harness, Main Power E-Box 240VAC Pwr Sply
10	620323663	Harness, Mn E-Box IO PCBA to LCD Usr Intrfc PCBA
11	620323664	Harness, Mn E-Box 24VAC Strip to Mtr PCBA
12	620323665	Harness Pwr E-Box IO PCBA to Mtr Cntrl PCBA, Comm
13	620323667	Harness, Mn E-Box Mtr Cntrl PCBA to 24VAC Sply Pwr E-Box
14	620323668	Harness, Mrchdsr Mn LED Stat to Extnr LED Stat
15	620323669	Harness, Pwr. E-Box 240VAC Compr Cap
16	620323670	Harness, Pwr E-Box 240VAC Compr Cont.
17	620323700	Harness, Mn E-Box to TCO
18	620323706	Harness, Mn E-Box Mtr Cntrl PCBA to Mtr 2
19	620323717	Harness, Mn E-Box Mtr Contrl PCBA to Mtr 3
20	620323729	Harness, Dual Pres. Transducer
21	620323731	Harness, Condenser Fan, Long
22	620323732	Harness, Compressor Pwr, Long
23	620323733	Harness, Primanry, Second Transformer
24	620323738	Harness, Mn E-Box to Mn Transformer
25	620046535	Harness, Mn E-Box to Motor Cntrl PCBA to Motor 4
26	620056073	Harn Barrel Fill Switch

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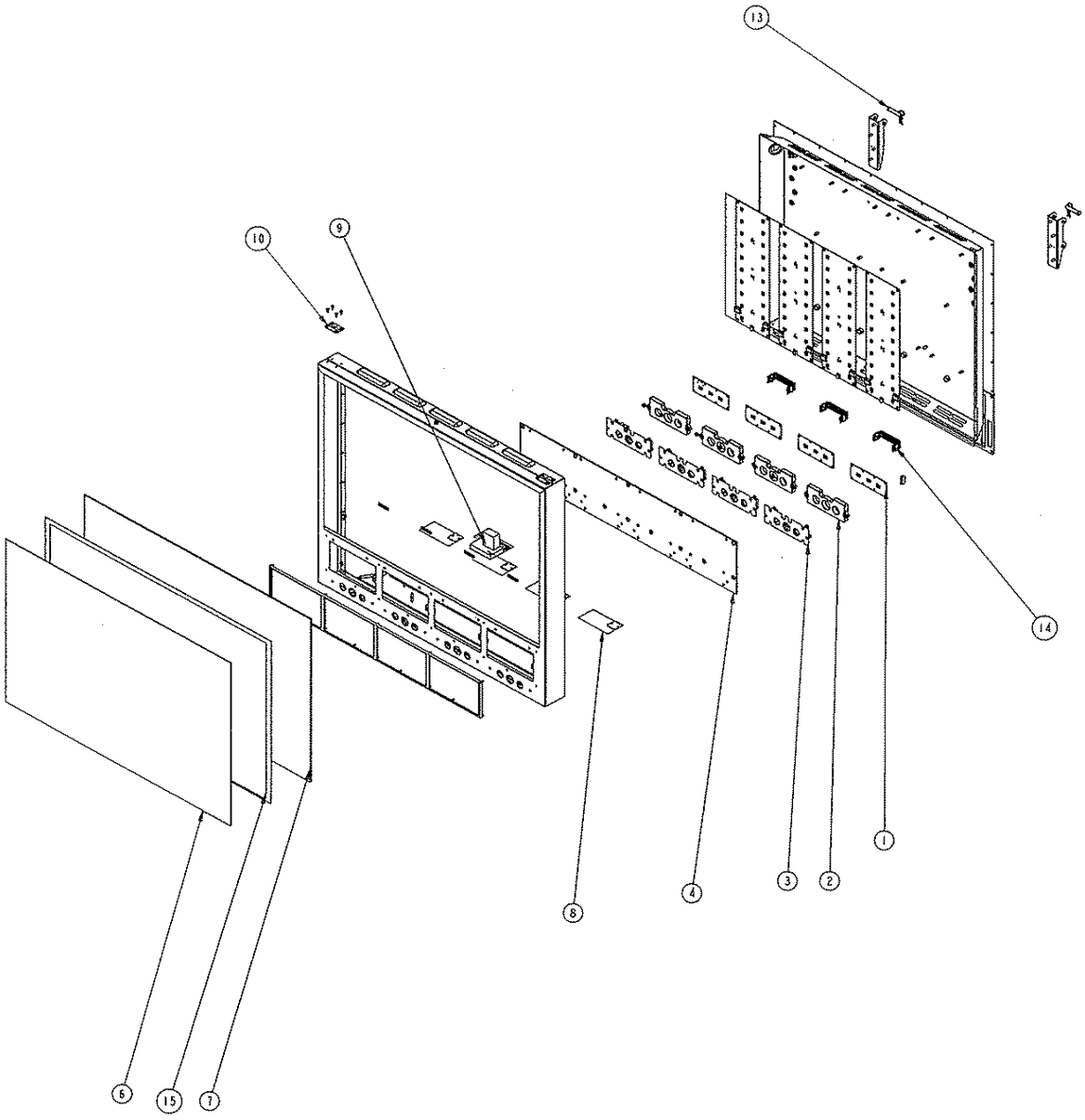

Figure 8. Merchandiser Assembly

Table 9. Merchandiser Assembly

Item	Part No.	Description
1	620314875S	Kit-Board Viper Ctl_Barrel Status Extender
2	620518917	Plate Mtg Viper Ctl Barrel Status
3	620928781	Graphic Board Viper Ctl Barrel Status
4	620045266	Diffuser Flavor Card 4FL Viper
5	620045252	Display Flavor Card CT PCL
6	620045265	Lens Graphic Merchandiser 4FL Viper
	620047449	Lens Graphic Merchandiser 4FL Viper - Short (Not Shown)
7	620045264	Kit-Diffuser Inside Merchandiser 4FL Viper
	620047450	Kit-Diffuser Inside Merchandiser 4FL Viper - Short (Not Shown)
8	620521775S	Kit-Merchandiser Assy Downlight PCBA

Table 9. Merchandiser Assembly

Item	Part No.	Description
9	620043050S	Kit-Power Supply Assy DC-DC 12V
10	629096926	Kit-Hinge Plastic Merchandiser 4FL Viper 2Pcs
11	620314874S	Kit-Board 4FL Viper Ctl_Barrel Status
12	620521776S	Kit-Merchandiser Assy Backlight PCBA
13	629096936	Kit-Pin Hinge 4FL Viper 2Pcs
14	620323668	Harness Main LED Status to Extender LED Status
15	620046477	Graphics Viper 4FL
	620047323	Graphics Viper 4FL - Short
16	620042868	Flavor Card - 18 Card Set (Not Shown)
17	620046771	Hinge for Short Merchandiser Viper (Not Shown)

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